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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/974,032	10/10/2001	Ralph Thomas Hoctor	RD-28,759	7531
6147	7590 08/10/2005		EXAMINER	
GENERAL ELECTRIC COMPANY			KIM, KEVIN	
	LOBAL RESEARCH ATENT DOCKET RM. BLDG. K1-4A59		ART UNIT	PAPER NUMBER
NISKAYUNA, NY 12309			2638	
			DATE MAILED: 08/10/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/974,032	HOCTOR ET AL.			
		Examiner	Art Unit			
		Kevin Y. Kim	2638			
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on <u>19 May 2005</u> .					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-28</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) <u>1-4 and 6-27</u> is/are allowed. Claim(s) <u>5 and 28</u> is/are rejected. Claim(s) <u>1 and 13</u> is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.				
Applicat	ion Papers					
9)☐ The specification is objected to by the Examiner.						
10) \boxtimes The drawing(s) filed on <u>10-10-2001</u> is/are: a) \square accepted or b) \boxtimes objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmer	at(s)					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4)				
3) 🔲 Infor	ce of Draftsperson's Patent Drawing Review (P10-946) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date		Patent Application (PTO-152)			

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DETAILED ACTION

Response to Amendment

1. In light of applicant's amendment have been fully considered and are persuasive. The previous rejection of 1-16 has been withdrawn. However, upon a review of the claims, some of the claims are found to violate 35 USC 112 second paragraph as set forth below, which was not previously recognized. In addition, there were found some objectional claim language as set forth below.

2. Claims 1 are objected to because of the following informalities:

Claims 1 and 13 were amended to include "the Nc chips a continuous noise transmitted waveform separated by a fixed time interval." The phrase is not understood well unless it is read as "each of the Nc chips comprising a continuous noise transmitted waveform separated by a fixed time interval." Emphasis added.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 5 and 28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 5 is written to "further" comprise the receiver defined in claim 1. The claims give an impression the limitations are added to those recited in claim 1. But apparently, the delay

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and signal multiplier replaces the bank of correlator. Without specifically identifying which element of claim 1 is further limited, it appears that two different embodiment of the present invention is confusingly mixed by the way claim 5 is written.

Claim 28 recites the steps of "correlating the received sum," "multiplying delayed and undelayed" and "integrating the multiplied delayed and undelayed versions" as if they are separate steps. However, in accordance with the disclosed invention, the last two steps are substeps of the first step. To avoid confusion it is suggested that the multiplying and integrating steps be identified as substeps of the correlating step.

Drawings

5. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Allowable Subject Matter

- 6. Claims 1-4,6-27 are allowed.
- 7. Claims 5 and 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Y. Kim whose telephone number is 571-272-3039. The examiner can normally be reached on 8AM --5PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Venderpuye can be reached on 571-272-3078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KEVIN KIM
PATENT EXAMINER